

1. Title	Provide diversified plumbing system design
2. Code	EMPDDE412A
3. Range	Provides different plumbing system designs according to different environment, budgets and limitation.
4. Level	4
5. Credits	4
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Plumbing system design concept</p> <ul style="list-style-type: none"> ◆ Know about design-related laws including: <ul style="list-style-type: none"> • Waterworks Ordinance and Waterworks Regulations • Land Drainage Ordinance • Environmental laws • Buildings ordinance • Factories & Industrial Undertakings (Safety Management) Regulation • Know about international standard codes of design ◆ Know about the water supply systems, and the design solutions and examples used locally and around the world ◆ Know about basic techniques of cost analysis <p>6.2 Apply cost analysis in design solutions</p> <ul style="list-style-type: none"> ◆ Work out design solutions according to client's budget ◆ Draft or provide several cost-effective solutions <p>6.3 Professional design of plumbing systems</p> <ul style="list-style-type: none"> ◆ Provide cost-effective design solutions complying with the technical requirements according to local and international codes of design
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to provide plumbing system designs that comply with local and international standards; and</p> <p>(ii) Capable to use cost analysis in positioning the design solution.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses knowledge of plumbing systems.